## Application No. 09/859,503

$$H_3C$$
 $O$ 
 $R_2$ 
 $O$ 
 $N$ 
 $N$ 
 $R_3$ 
 $CH_3$ 
 $R_4$ 

or

$$H_3C$$
 $O$ 
 $R_2$ 
 $O$ 
 $N$ 
 $N$ 
 $R_3$ 
 $CH_3$ 

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## wherein:

 $R_1$  is selected from a member of the group consisting of hydrogen, hydroxyl, methoxyl, acylamino group, cyano group, sulfo, sulfinyl, sulfhydryl (mercapto), sulfeno, sulfanilyl, sulfamyl, sulfamino, and phosphino, phosphinyl, phospho, phosphono and  $-NR_aR_b$ , wherein each of  $R_a$  and  $R_b$  may be the same or different and each is selected from the group consisting of hydrogen and optionally substituted:  $C_{(1\cdot 20)}$ alkyl,  $C_{(3-12)}$ cycloalkyl,  $C_{(2\cdot 20)}$ alkynyl, aryl, heteroaryl, and heterocyclic group;

 $R_2$  and  $R_3$  are independently selected from a member of the group consisting of halo, oxo,  $C_{(1-20)}$ alkyl,  $C_{(1-20)}$ hydroxyalkyl,  $C_{(1-20)}$ thioalkyl,  $C_{(1-20)}$ alkylthio,  $C_{(1-20)}$ alkylaminoalkyl,  $C_{(1-20)}$ aminoalkyl,  $C_{(1-20)}$ aminoalkyl,  $C_{(1-20)}$ triaminoalkyl,  $C_{(1-20)}$ tetraaminoalkyl,  $C_{(1-20)}$ alkylamido,  $C_{(1-20)}$ alkylamidoalkyl,  $C_{(1-20)}$ amidoalkyl,  $C_{(1-20)}$ acetamidoalkyl,  $C_{(2-20)}$ alkenyl,  $C_{(2-20)}$ alkylamido,  $C_{(1-20)}$ alkoxyl,  $C_{(1-20)}$ alkoxyl, and -NR<sub>a</sub>R<sub>b</sub>; and

 $R_4$  may be hydrogen or an optionally substituted member of the group consisting of  $C_{(1-20)}$ alkyl,  $C_{(3-12)}$ cycloalkyl,  $C_{(2-20)}$ alkenyl,  $C_{(3-12)}$ cycloalkenyl,  $C_{(2-20)}$ alkynyl, aryl, heteroaryl, and heterocyclic group.

R2

- 2. (Amended) The therapeutic compound of claim 1, wherein  $R_2$  and  $R_3$  are independently selected from a member of the group consisting of hydrogen, halo, thio, oxo,  $C(_{1-10})$ alkyl,  $C(_{1-10})$ hydroxyalkyl,  $C(_{1-10})$ thioalkyl,  $C(_{1-10})$ alkylthio,  $C(_{1-10})$ alkylamino,  $C(_{1-10})$ alkylaminoalkyl,  $C(_{1-10})$ aminoalkyl,  $C(_{1-10})$ aminoalkoxyalkenyl,  $C(_{1-10})$ aminoalkyl,  $C(_{1-10})$ tetraaminoalkyl,  $C(_{1-10})$ aminotrialkoxyamino,  $C(_{1-10})$ alkylamido,  $C(_{1-10})$ alkylamidoalkyl,  $C(_{1-10})$ amidoalkyl,  $C(_{1-10})$ acetamidoalkyl,  $C(_{2-10})$ alkenyl,  $C(_{2-10})$ alkylamido,  $C(_{1-10})$ alkoxyl,  $C(_{1-10})$ alkoxyalkyl, and  $C(_{1-10})$ dialkoxyalkyl.
- 6. The therapeutic compound of claim 4, wherein the (Twice Amended) heterocyclic group is a member selected from the group consisting of acridinyl, aziridinyl, azocinyl, azepinyl, benzimidazolyl, benzodioxolanyl, benzofuranyl, benzothiophenyl, carbazole, 4a H-carbazole, chromanyl, chromenyl, cinnolinyl, decahydroquinolinyl, dioxoindolyl, furazanyl, furyl, furfuryl, imidazolidinyl, imidazolinyl, imidazolyl, 1H-indazolyl, indolenyl, indolinyl, indolizinyl, indolyl, 3H-indolyl, isobenzofuranyl, isochromanyl, isoindolinyl, isoindolyl, isoquinolinyl, isothiazolyl, isoxazolyl, morpholinyl, naphthyridinyl, octahydroisoquinolinyl, oxazolidinyl, oxazolyl, oxiranyl, perimidinyl, phenanthridinyl, phenanthrolinyl, phenarsazinyl, phenazinyl, phenoxathiinyl, phenoxazinyl, phthalazinyl, piperazinyl, piperidinyl, 4-pipendonyl, piperidyl, pteridinyl, purinyl, pyranyl, pyrazinyl, pyrazolidinyl, pyrazolinyl, pyrazolyl, pyridazinyl, pyndinyl, pyridyl, pyrimidinyl, pyrrolidinyl, 2-pyrrolidonyl, pyrrolonyl, pyrrolyl, 2H-pyrrolyl, quinazolinyl, 4H-quinolizinyl, quinolinyl, quinoxalinyl, quinuclidinyl, β-carbolinyl, tetrahydrofuranyl, tetrahydroisoquinolinyl, tetrahydroquinolinyl, tetrazolyl, 6H-1,2,5-thiadiazinyl, 2H-,6H-1,5,2-dithiazinyl, thianthrenyl, thiazolyl, thienyl, thiophenyl, triazinyl, xanthenyl and xanthinyl.

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<sup>37. (</sup>Amended) A therapeutic compound, including resolved enantiomers, diastereomers, tautomers, salts and solvates thereof, having one of the following formulae:

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$$H_3C$$
 $O$ 
 $R_2$ 
 $O$ 
 $N$ 
 $N$ 
 $R_3$ 
 $CH_3$ 
 $R_4$ 

or

$$H_3C$$
 $O$ 
 $R_2$ 
 $O$ 
 $N$ 
 $N$ 
 $R_3$ 
 $CH_3$ 

wherein:

 $R_1$  is selected from a member of the group consisting of hydrogen, hydroxyl, methoxyl, acylamino group, cyano group, sulfo, sulfonyl, sulfinyl, sulfhydryl (mercapto), sulfeno, sulfanilyl, sulfamyl, sulfamino, phosphino, phosphinyl, phospho, phosphono and  $-NR_aR_b$ , wherein each of  $R_a$  and  $R_b$  may be the same or different and each is selected from the group consisting of hydrogen and optionally substituted:  $C_{(1\cdot 20)}$ alkyl,  $C_{(3\cdot 12)}$ cycloalkyl,  $C_{(2\cdot 20)}$ alkenyl,  $C_{(3\cdot 12)}$ cycloalkenyl,  $C_{(2\cdot 20)}$ alkynyl, aryl, heteroaryl, and heterocyclic group;

R<sub>2</sub> and R<sub>3</sub> are independently selected from a unsubstituted or substituted member of the group consisting of methyl, ethyl, oxo, isopropyl, n-propyl, isobutyl, n-butyl, t-butyl, 2-hydroxyethyl, 3-hydroxypropyl, 3-hydroxy-n-butyl, 2-methoxyethyl, 4-methoxy-n-butyl, 5-hydroxyhexyl, 2-bromopropyl, 3-dimethylaminobutyl, 4-chloropentyl, methylamino, aminomethyl, and methylphenyl; and

 $R_4$  may be hydrogen or an optionally substituted member of the group consisting of  $C_{(1.20)}$  alkyl,  $C_{(3-12)}$  cycloalkyl,  $C_{(3-12)}$  cycloalkenyl,  $C_{(2-20)}$  alkynyl, aryl, heteroaryl, and heterocyclic group.

By